

<110> Rosen et al.

<120> Nucleic Acids, Proteins, and Antibodies

<130> PA003P1

<150> unassigned

<151> 2001-11-30

<150> PCT/US00/22157

<151> 2000-08-11

<150> 60/148,680

<151> 1999-08-13

<160> 56

<170> PatentIn Ver. 2.0

<210> 1

<211> 733

<212> DNA

<213> Homo sapiens

<400> 1

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agaaaaccat	ctccaaagcc	aaagggcagc	cccgagaacc	acaggtgtac	accctgcccc	420
catccccgga	tgagctgacc	aagaaccagg	tcagcctgac	ctgcctggtc	aaaggcttct	480
atccaagcga	catcgccgtg	gagtgggaga	gcaatgggca	gccggagaac	aactacaaga	540
ccacgcctcc	cgtgctggac	tccgacggct	ccttcttct	ctacagcaag	ctcaccgtgg	600
acaagagcag	gtggcagcag	gggaacgtct	tctcatgctc	cgtgatgcat	gaggctctgc	660
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gactctagag	gat					733

<210> 2

<211> 5

<212> PRT

<213> Homo sapiens

<220>

<221> Site

<222> (3)

<223> Xaa equals any of the twenty naturally occurring L-amino acids

<400> 2

Trp	Ser	Xaa	Trp	Ser
1				5

<210> 3

<211> 86

<212> DNA

<213> Artificial Sequence

<220>

<221> Primer_Bind

<223> Synthetic sequence with 4 tandem copies of the GAS binding site found in the IRF1 promoter (Rothman et al., Immunity 1:457-468 (1994)), 18 nucleotides complementary to the SV40 early promoter, and a Xho I restriction site.

<400> 3

gcgccctcgag atttccccga aatctagatt tccccgaaat gatttccccg aaatgatttc 60
 cccgaaatat ctgccatctc aattag 86

<210> 4
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> Primer_Bind
 <223> Synthetic sequence complementary to the SV40 promoter; includes a Hind III restriction site.

<400> 4
 gcggcaagct ttttgcaaag cctagggc 27

<210> 5
 <211> 271
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> Protein_Bind
 <223> Synthetic promoter for use in biological assays; includes GAS binding sites found in the IRF1 promoter (Rothman et al., Immunity 1:457-468 (1994)).

<400> 5
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 aaatatctgc catctcaatt agtcagcaac catagtcccc cccctaactc cgcccatccc 120
 gccctaact ccgcccagtt ccgcccattc tccgccccat ggctgactaa ttttttttat 180
 ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt 240
 ttttgagggc ctaggctttt gcaaaaagct t 271

<210> 6
 <211> 32
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> Primer_Bind
 <223> Synthetic primer complementary to human genomic EGR-1 promoter sequence (Sakamoto et al., Oncogene 6:867-871 (1991)); includes a Xho I restriction site.

<400> 6
 gcgctcgagg gatgacagcg atagaacccc gg 32

<210> 7
 <211> 31
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> Primer_Bind
 <223> Synthetic primer complementary to human genomic EGR-1 promoter sequence (Sakamoto et al., Oncogene 6:867-871 (1991)); includes a Hind III restriction site.

<400> 7
 gcgaagcttc gcgactcccc ggatccgcct c 31

<210> 8
 <211> 12
 <212> DNA
 <213> Homo sapiens

<400> 8
ggggactttc cc 12

<210> 9
<211> 73
<212> DNA
<213> Artificial Sequence

<220>
<221> Primer_Bind
<223> Synthetic primer with 4 tandem copies of the NF-KB binding site (GGGGACTTTC), 18 nucleotides complementary to the 5' end of the SV40 early promoter sequence, and a XhoI restriction site.

<400> 9
gcggcctcga ggggactttc ccggggactt tccggggact ttccgggact ttccatcctg 60
ccatctcaat tag 73

<210> 10
<211> 256
<212> DNA
<213> Artificial Sequence

<220>
<221> Protein_Bind
<223> Synthetic promoter for use in biological assays; includes NF-KB binding sites.

<400> 10
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caattagtca gcaaccatag tcccgcacct aactccgccc atcccgcctc taactccgcc 120
cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga 180
ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg 240
cttttgcaaa aagctt 256

<210> 11
<211> 800
<212> DNA
<213> Homo sapiens

<400> 11
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cctgatgttt ctgtctcaga gccaaaggcca agaggccctg acagagttgc cccaggcccg 180
gatcagctgc ccagaaggca ccaatgccta tcgctcctac tgctactact ttaatgaaga 240
ccgtgagacc tgggttgatg cagatctcta ttgccagaac atgaattcgg gcaacctggt 300
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gagcagtggt tccctggtct cctacaagtc ctggggcatt ggagcccaaa gcagtgttaa 480
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aactcaactc aacctggaca ctctcttctc tgctgagttt gccttggttaa tcttcaatag 720
ttttacctac cccagtcttt ggaaccctaa ataataaaaa taaacatgtt tccactatta 780
aaacaaaaaa aaaaaaaaaa 800

<210> 12
<211> 514
<212> DNA
<213> Homo sapiens

<400> 12
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tccgaagggt cactgccact gtggggggga tggccatcct ccaggtcact gcggggccacc 120
ccctggccat ggcccagggc cctgcggggc accccccccac catggcccag ggcctgcgg 180

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gccaccccc caccatgggtc cagggccctg cggggccaccc cctggccatg gccaggggcc 240
ctgcgggcca cccccccacc atggtccagg gccttgcggg cctccccctg gccatggccc 300
aggtcaccca ccccctgggtc cacatcactg aggaagtaga agaaaacagg acacaagatg 360
gcaagcctga gagaattgcc cagctgacct ggaatgaggc ctaaaccaca atcttctctt 420
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<210> 13
<211> 1893
<212> DNA
<213> Homo sapiens

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<221> misc_feature
<222> (1184)..(1184)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1865)..(1865)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1883)..(1883)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1887)..(1887)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1893)..(1893)
<223> n equals a,t,g, or c

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<400> 13
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cggagcccg cccgtagaggc tgcaatcgca gccgggagcc cgcagcccg gccccgagcc 180
cgccgcccgc cttcgagggc gccccaggcc gcgccatggt gaaggtagcg ttcaactccg 240
ctctggccca gaagcaggcc aagaaggacg agcccaagag cggcgaggag gcgctcatca 300
tccccccga cgcgcgcgcg gtggactgca aggaccaga tgatgtggtt ccagttggcc 360
aaagaagagc ctggtgttgg tgcagtgtct ttggactagc atttatgtct gcaggtgtta 420
ttctaggagg agcatacttg tacaaatatt ttgcacttca accagatgac gtgtactact 480
gtggaataaa gtacatcaaa gatgatgtca tcttaaataa gccctctgca gatgccccag 540
ctgctctcta ccagacaatt gaagaaaata ttaaaatctt tgaagaagaa gaagtgaat 600
ttatcagtgt gcctgtccca gagtttgcag atagtgatcc tgccaacatt gttcatgact 660
ttaacaagaa acttacagcc tatttagatc ttaacctgga taagtgcctat gtgatccctc 720
tgaacacttc cattgttatg ccaccagaa acctactgga gttacttatt aacatcaagg 780
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ccttgccctc	aataaataaa	gttctttttt	agttccaaaa	aaaaaaaaag	ggcggccggt	1860
taarngatcc	aasttacgta	ccttgcntgc	gan			1893

<210> 14
 <211> 1681
 <212> DNA
 <213> Homo sapiens

<400> 14						
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acgtggacaa	tggctacttg	gagggactgg	tgcgcgccct	gaaggccggg	gtgctcagcc	180
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gtgtgtgtgt	ccttggggcc	tggggggatg	ttgtcctca	gtccctctcc	tcagccctgc	1620
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a						1681

<210> 15
 <211> 502
 <212> DNA
 <213> Homo sapiens

<400> 15						
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<210> 16
 <211> 1478
 <212> DNA
 <213> Homo sapiens

<400> 16						
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<210> 17

<211> 926

<212> DNA

<213> Homo sapiens

<400> 17

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<210> 18

<211> 547

<212> DNA

<213> Homo sapiens

<400> 18

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<210> 19

<211> 565

<212> DNA

<213> Homo sapiens

<400> 19

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<210> 20

<211> 1768

<212> DNA

<213> Homo sapiens

<400> 20

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aagctgtgag	atcactggct	ttggaaaaga	gaattctagt	aagtgacaat	tgcgactgac	180
ttagaaggct	ctgaggagtg	ttttgacctg	aaaatgagcc	cagtgtgatc	aagggagagc	240
tgcagagtta	gaggtgggag	cactgaggcg	gtggcagatg	ggtccaggga	tggatgaaga	300
gtgttggtta	gggagcgatg	ggctgcaaag	gtaaatagat	ggtaggggct	ataggtggag	360
taaaggctca	gatttgcatt	gaagagaata	agggccttcc	ctggtagaga	tactttatgg	420
ttccccctct	tggcagactc	ccagtggaca	gataaatctt	gatgcaaacg	cctccctgtt	480
ttctccacct	agccgactat	ctctatcccg	agcagctgaa	aatgactgtt	gtgaagctga	540
tttcccaccg	ggagtgtcag	cagccccact	actacggctc	tgaagtcacc	accaaattgc	600
tgtgtgctgc	tgacccacag	tggaaaacag	attcctgcca	gggagactca	gggggacccc	660
tcgtctgttc	cctccaaggc	cgcattgact	tgactggaat	tgtgagctgg	ggccgtggat	720
gtgccctgaa	ggacaagcca	ggcgtctaca	cgagagtctc	acacttctta	ccctggatcc	780
gcagtcacac	caaggaagag	aatggcctgg	ccctctgagg	gtccccaggg	aggaaacggg	840
caccaccocg	tttcttgctg	gttgtcattt	ttgcagtaga	gtcatctcca	tcagctgtaa	900
gaagagactg	ggaagatagg	ctctgcacag	atggatttgc	ctgtgccacc	caccaggggtg	960
aacgacaata	gctttaccct	caggcatagg	cctgggtgct	ggctgcccag	acccctctgg	1020
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gactgaagtc	tcaggaggtt	aaaaaaggca	gggcatctcc	tgtgcatggg	tgaagggaga	1140
gccagctccc	ccgacgggtg	gcatttgtga	ggcccatggg	tgagaaatga	ataatttccc	1200
aattaggaag	tgtaacagct	gaggtctctt	gagggagctt	agccaatgtg	ggagcagcgg	1260
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gagtaagagc	ttgtgtctga	ttgttaagtc	taaatatttc	cttaaaactgt	gtggactgtg	1440
atgccacaca	gagtgggtct	tctggagagg	ttataggtca	ctcctggggc	ctcttgggtc	1500
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ctcagtttca	ctttcacata	gatgtccctt	tcttggccag	ttatcccttc	cttttagcct	1620
agttcatcca	atcctcactg	ggltgggtga	ggaccactcc	ttacactgaa	tatttatatt	1680
tcactatttt	tatttatatt	tttgaatttt	taaataaaaag	tgatcaataa	aatgtgattt	1740
ttctgatgac	aaaaaaaaaa	aaaaaaaaa				1768

<210> 21

<211> 424

<212> DNA

<213> Homo sapiens

<400> 21

ccacgcgtcc	ggccggaagc	aggaagcagc	ctgtgctccc	caggacctgc	ctgggtgggg	60
gaattggagg	cttctaggag	gtggcacggg	gcacgccaag	atggctgtgt	ccacagagga	120
gctggaggcc	acgggtcagg	aagtcctggg	gagactgaag	agccaccagt	ttttccagtc	180
cacatgggac	actgttgcc	tcattgtttt	cctcaccttc	atgggcaccg	tgctgtcctc	240
gctgctgctg	gtcgtcgccc	actgctgctg	ctgcagctcc	ccggggcccc	gcagggaaaag	300
cccaggaag	gaaagaccca	agggagtggg	taacttgggc	ctggaaccct	gaccctgtgt	360
ctcctgccc	gtggcagtaa	caaagccttc	tgtctgccc	gaaaaaaaaa	aaaaaaaaaa	420
aaaa						424

<210> 22
 <211> 629
 <212> DNA
 <213> Homo sapiens

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<400> 22
ggcacgagct cgtgccgtga gacacaacca cccgggactt caccagctc aacgagctgc      60
aatgccgctt tcccaggcgc ctggtggtcc ttggcttccc ttgcaaccaa ttgggacatc      120
agagcaggag agacagaagt agcaaacccct ctttcgagat gtccctccag cccagaagt      180
acctccagcc tcacaccatc tcttcagcct agcaagttgc tggaggaggc ctataacctc      240
ccaggagcca gccagccatt tgtatcaaga aatagaaatc tgccagggtc cagtggctca      300
cacctataat cccagcgctt tgggaggcta agttctagga caaggcaaga agaaagcaag      360
aagctgtaaa tcccattcct ctgggtctca atttcaccct cagttcaagg agctgagtag      420
gcagaggcaa aggctatact caacacacgt gcaattgaaa gcaggcgagg caaaaccagg      480
gcagaggaaa ggaaaggggt gtgtgtgtag aactgctcag ggtagactgg agacaaaagc      540
aacagctcag aagtgtctaa tcttgaagag cagccaaagc atgggcaaca aagtgagacc      600
ccatctctac aaaaaaaaaa aaaaaaaaaa

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<210> 23
 <211> 777
 <212> DNA
 <213> Homo sapiens

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<400> 23
tcgaccacag cgtccgcccc cgcgtccgcc cagcgtccgc cccacgcgtc cggcggagtt      60
gcagcgcttg gtggccgccc agcagcagaa ggcgcagttt actgcacagg ccacgtgcc      120
gtagaaaaga tactcatcca ctgtgggttt tggtttcgcc gtcacccac tgccctactg      180
gattgtgagg atcatatgcg acaatgtatt tgaaaacgac tagaacatta tcggagggaag      240
gtggactctg aagtagtcgc ttagactatc ggatgtagaa caagggtttg gagcccttcg      300
gacatggttc taacgcggcc tgacttcttg ctggctacat gaccttggac tacataatca      360
cgcctcttaa atgggaggtg atgacagcta tccttgagga ccttagagag aactgatttc      420
ttagtaccba gcttcacaaa tagtgcacat cttcatggag ttatgttggg ataaatgtgt      480
ggagaagcca gggaatcgcc tagactctcg cactgaaaat tgtctctcca gctgtgtaga      540
ccgcttcatt gacaccactc ttgccatcac cagtcggttt gccagattg tacagaaagg      600
agggcagtag gccatccccc aggagaatga cagaagcaaa ggacttggtt ctaagcagat      660
ttaagggcca gtgggggaag gctatcaacc cattgtcaga tcagcatcag gctgttatca      720
agtctgttgg tgctaaaaag taaaagatga aatgttcaaa gaaaaaaaaa aaaaaaa      777

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<210> 24
 <211> 843
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (812)..(812)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (822)..(822)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (829)..(829)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (838)..(838)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (841)..(841)

<223> n equals a,t,g, or c

<400> 24

aattcggcac	gagctggcct	gagaagccaa	ctcagactca	gccaacagag	attgttgatt	60
tgcctcttaa	gcaagagatt	cattgcagct	cagcatggct	cagaccagct	catacttcat	120
gctgatctcc	tgcctgatgt	ttctgtctca	gagccaaggc	caagaggccc	agacagagtt	180
gccccaggcc	cggatcagct	gcccagaagg	caccaatgcc	tatcgctcct	actgctacta	240
ctttaatgaa	gaccgtgaga	cctgggttga	tgcagatctc	tattgccaga	acatgaattc	300
gggcaacctg	gtgtctgtgc	tcacccaggc	cgagggtgcc	tttgtggcct	cactgattaa	360
ggagagtggc	actgatgact	tcaatgtctg	gattggcctc	catgacccca	aaaagaaccg	420
ccgctggcac	tggagcagtg	ggtccctggg	ctcctacaag	tcttggggca	ttggagcccc	480
aagcagtgtt	aatcctggct	actgtgtgag	cctgacctca	agcacaggat	tccagaaatg	540
gaaggatgtg	ccttgtgaag	acaagtcttc	ccttgtctgc	aagttcaaaa	actagaggca	600
gctggaaaaa	acatgtctag	aactgatcca	gcaattacaa	cggagtcaaa	aattaaaccg	660
gaccatctct	ccaactcaac	tcaacctgga	cactctcttc	tctgctgagt	ttgccttggt	720
aatcttcaat	agttttacct	accccagctc	ttggaaccyt	aaataataaa	aataaacatg	780
tttccactaa	aaaaaaaaaa	aaaaaaaaamt	cncagggggg	gnccggtanc	caattcgncc	840
nna						843

<210> 25

<211> 373

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (329)..(329)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (332)..(332)

<223> n equals a,t,g, or c

<400> 25

gctgcactct	cagggtattcc	ctgctcttac	tccaaaaaga	tggacccagg	tccgaagggg	60
cactgccact	gtggggggca	tggccatcct	ccagggtcact	gcggggccacc	ccctggccat	120
ggcccagggc	cctgcggggc	acccccccac	catggcccag	ggccctgcgg	gccaccccc	180
caccatggtc	caggggccctg	cggggccacc	cctggccatg	gcccaggggc	ctgcgggcca	240
ccccccacc	atgggtccagg	gccctgcggg	cctccccctg	gccatggccc	aggtcacca	300
ccccctggtc	cacatcactg	aggaagtana	anaaaacagg	acacaagatg	gcaagcctga	360
gagaaattgc	cca					373

<210> 26

<211> 441

<212> DNA

<213> Homo sapiens

<400> 26

ggcacgagga	aaatcaaaaa	gacctctctg	ctgtggacaa	aataatgaag	gacctggacc	60
agtgtagaga	tggcaaagtg	ggctccaga	gcttcttttc	cctaattgcg	ggcctcacca	120
ttgcatgcaa	tgactatttt	gtagtacaca	tgaagcagaa	gggaaagaag	taggcagaaa	180
tgagcagttc	gctcctccct	gataagagtt	gtcccaaagg	gtcgtttaag	gaatctgccc	240
cacagcttcc	cccatagaag	gatttcatga	gcagatcagg	acacttagca	aatgtaaaaa	300
taaaatctaa	ctctcatattg	acaagcagag	aaagaaaagt	taaataccag	ataagctttt	360
gatttttgta	ttgtttgcat	cccttgccc	tcaataaata	aagttctttt	ttagttccaa	420
aaaaaaaaaa	aaaaaaaaaa	a				441

<210> 27

<211> 1637

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (738)..(738)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (771)..(771)

<223> n equals a,t,g, or c

<400> 27

gccccgtgag	gacgcagcgt	cactgacctg	gggagtcgcg	attcgtgccg	gccgggtcctg	60
gttctccggt	cccgcgcgtc	ccgcagcagc	catgtcgttc	ttcccggagc	tttactttaa	120
cgtggacaat	ggctacttgg	agggactggt	gcgcggcctg	aaggccgggg	tgctcagcca	180
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gagcactgat	tatggtaact	tcctggccaa	cgaggcatca	cctctgacgg	tgctagtcac	300
cgatgaccgg	ctcaaggaga	agatggtggt	ggagtccgcg	cacatgagga	accatgccta	360
tgagccactc	gccagcttcc	tagacttcat	tacttacagt	tacatgatcg	acaacgtgat	420
ctcgtctatc	acaggcacgc	tgaccacgcy	ctccatcgct	gagctcgtgc	ccaagtgccca	480
cccactaggc	agcttcgagc	agatggaggc	cgatgaacatt	gctcagacac	ctgctgagct	540
ctacaatgcc	attctggtgg	acacgcctct	tgccgctttt	ttccaggact	gcattttcaga	600
gcaggacctt	gacgagatga	acatcgagat	catccgcaac	accctctaca	aggcctacct	660
ggagtccttc	tacaagttct	gcaccctact	gggcgggact	acggctgatg	ccatgtgccc	720
cattcctggag	tttscaangc	agaccgtgcc	aagctctttc	cacactgtgg	ncggctctac	780
cctgagggcc	tgggcgcastg	gctcgggctg	acgactatga	acagggtcaag	aacgtggccg	840
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cgctggagga	ccgattcttt	gagcacgagg	taaagctgaa	caagttggcc	ttcctgaacc	960
agttccactt	tggtgtcttc	tatgccttcg	tgaagctcaa	ggagcaggag	tgctcgcaaca	1020
tcgtgtggat	cgctgaatgt	atcgcccagc	gccaccgccc	caaaatcgac	aactacatcc	1080
ctatcttcta	gcgtcctggc	ccaaggctct	caattgcact	ctttgtgtgt	gtgtgtgtgt	1140
gtgtgcgcgt	gtgtgtgcgt	gtgtgtgtat	gtggtctgtg	acaagcctgt	ggctcacctg	1200
cctgtccggg	gtgtagtacg	ctgtccttagc	ggctgcccag	ttctcctgac	cctcttagag	1260
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gcatgtcact	ttcatgttcc	tccttaactc	cctgacctga	gaaccctggg	gcctgggggc	1440
agttttgagc	tcctctccct	tctgtgggtc	gctcccagag	ccatggccca	tggaaggagc	1500
agagtgtgtg	tgctctggg	gcctgggggg	atgttgcctc	tcagctccct	ccctcagccc	1560
tgccctctcg	agacaataaa	actgcctctc	ctaaggccaa	aaaaaaaaaa	aaaaaaaaaa	1620
aaaaaaaaaa	aaaaaaa					1637

<210> 28

<211> 1471

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1014)..(1014)

<223> n equals a,t,g, or c

<400> 28

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agtttttcatt	aaaaaccttt	acaagaccat	tgcatcacaa	atatacagac	actataaaaa	120
ctgtgtcatg	gtggttttgg	ttctaaacag	gtatgcagaa	ggtccccgtt	acactttcca	180
ataatgaaaa	atgtttataa	ttctaaatac	agcaaccat	gtaagacatg	ttcatgtatc	240
tgatctctcc	ttcatcctat	gtacagctag	aaatgaatga	ctacactgaa	atgtactaac	300
aaaatgtcac	acttcagtgg	aaaaagacag	aatgaaaccc	tggttatagt	aaaaaaaaaa	360
aatcaggggtg	ctagataaatg	gcactaccac	cacccaaatt	cagttgaaac	aatgcacaa	420
aatatcttgg	aaatctagtt	aaaactatga	aaaatcaaat	ctgtacataa	aatttacaaa	480
aaaaagagac	aggaaaatta	aaataatcaa	atctatataa	atacatgaat	catgctgaca	540
acacaggact	gatttttcgt	ttgattattt	taacacagac	agatgtaaat	cccaaaagac	600
gttgggaaat	ggcacagccg	atgaaaacct	cacgatgaca	gtagttggga	cactggaaat	660
ggctagcacg	tcagagggcg	caggatccag	cgcagccatg	cccatcggc	tcacccaaaa	720
aagcttggaa	gcactgctgc	aaagaacagc	gcggattact	cacatcacct	ctaggttcac	780
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ggggcgggat	cgtcacctct	tcgaagtggc	gtcgtccccc	gctctcatag	tcactcatca	900
tgacctcgga	ctccacttcg	cagcaggctg	acacgtcaga	gcaggaggcg	gtggaggcgt	960
acacagacat	gggcatgctc	tcgacagcgg	gcgcctcgaa	gtgtctttga	tacnctggcg	1020
ggtaaggggc	atggggttct	ctacaagtac	tattctcacc	agtgcctttt	gtttgaggtt	1080

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cagacatatac gaggggataa aaattgggca aataactgatt caagttgaac ctctgccggt 1140
ttcttgatga agaaccacaag ctaccgcggy caggcatgtc tctaggaggg tggatggatt 1200
caaactgatt gctgaattcg ggcggtaacg gtggtagctc atcagctgcg gggaagtctt 1260
ctgggggtgg agggaaatca ctttcgatgt cgtagcctcc agggtaatag tccgtatcga 1320
tggcgtttgg atctgctgag tacaggggtg tctgctcatc aaccacctca tagttgggga 1380
actcttgat gtcgggcaga ggaacgcttg gcatccaatc tgatgtatcc cagtataacc 1440
ctcttggttt gctgaggtca ggagcagcca a 1471

```

```

<210> 29
<211> 422
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (419)..(419)
<223> n equals a,t,g, or c

```

```

<400> 29
gacggagccg gaagcaggaa gcagcctgtk ctccccagga cctgcctggt tgggggaatt 60
ggaggcttct aggaggtggc acggtgcacg ccaagatggc tgtgtccaca gaggagctgg 120
agggcacggt tcaggaagtc ctggggagac tgaagagcca ccagtttttc cagtccacat 180
gggacactgt tgccttcatt gttttcctca ccttcattgg caccgtgctg ctctgctgc 240
tgctggtcgt cggccactgc tgctgctgca gctcccccg gccccgcagg gaaagcccca 300
ggaaggaaaag acccaaggga gtggataact tggccctgga accctgacct tgtgtctcct 360
gcccgtgggc agtaacaaag cttctgtct gcccagaaaa aaaaaaaaaa aaaaaaaang 420
gg 422

```

```

<210> 30
<211> 166
<212> PRT
<213> Homo sapiens

```

```

<400> 30
Met Ala Gln Thr Ser Ser Tyr Phe Met Leu Ile Ser Cys Leu Met Phe
  1             5             10             15
Leu Ser Gln Ser Gln Gly Gln Glu Ala Gln Thr Glu Leu Pro Gln Ala
      20             25             30
Arg Ile Ser Cys Pro Glu Gly Thr Asn Ala Tyr Arg Ser Tyr Cys Tyr
      35             40             45
Tyr Phe Asn Glu Asp Arg Glu Thr Trp Val Asp Ala Asp Leu Tyr Cys
      50             55             60
Gln Asn Met Asn Ser Gly Asn Leu Val Ser Val Leu Thr Gln Ala Glu
      65             70             75             80
Gly Ala Phe Val Ala Ser Leu Ile Lys Glu Ser Gly Thr Asp Asp Phe
      85             90             95
Asn Val Trp Ile Gly Leu His Asp Pro Lys Lys Asn Arg Arg Trp His
      100            105            110
Trp Ser Ser Gly Ser Leu Val Ser Tyr Lys Ser Trp Gly Ile Gly Ala
      115            120            125
Pro Ser Ser Val Asn Pro Gly Tyr Cys Val Ser Leu Thr Ser Ser Thr
      130            135            140
Gly Phe Gln Lys Trp Lys Asp Val Pro Cys Glu Asp Lys Phe Ser Phe
      145            150            155            160
Val Cys Lys Phe Lys Asn
      165

```

<210> 31
 <211> 93
 <212> PRT
 <213> Homo sapiens

<400> 31

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Met Asp Pro Gly Pro Lys Gly His Cys His Cys Gly Gly His Gly His
 1              5              10              15
Pro Pro Gly His Cys Gly Pro Pro Pro Gly His Gly Pro Gly Pro Cys
              20              25              30
Gly Pro Pro Pro His His Gly Pro Gly Pro Cys Gly Pro Pro Pro His
              35              40              45
His Gly Pro Gly Pro Cys Gly Pro Pro Pro Gly His Gly Pro Gly Pro
              50              55              60
Cys Gly Pro Pro Pro His His Gly Pro Gly Pro Cys Gly Pro Pro Pro
              65              70              75              80
Gly His Gly Pro Gly His Pro Pro Pro Gly Pro His His
              85              90
```

<210> 32
 <211> 97
 <212> PRT
 <213> Homo sapiens

<400> 32

```
Met Pro Ser Gln Met Glu His Ala Met Glu Thr Met Met Phe Thr Phe
 1              5              10              15
His Lys Phe Ala Gly Asp Lys Gly Tyr Leu Thr Lys Glu Asp Leu Arg
              20              25              30
Val Leu Met Glu Lys Glu Phe Pro Gly Phe Leu Glu Asn Gln Lys Asp
              35              40              45
Pro Leu Ala Val Asp Lys Ile Met Lys Asp Leu Asp Gln Cys Arg Asp
              50              55              60
Gly Lys Val Gly Phe Gln Ser Phe Phe Ser Leu Ile Ala Gly Leu Thr
              65              70              75              80
Ile Ala Cys Asn Asp Tyr Phe Val Val His Met Lys Gln Lys Gly Lys
              85              90              95
```

Lys

<210> 33
 <211> 351
 <212> PRT
 <213> Homo sapiens

<400> 33

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Met Ser Phe Phe Pro Glu Leu Tyr Phe Asn Val Asp Asn Gly Tyr Leu
 1              5              10              15
```

Glu Gly Leu Val Arg Gly Leu Lys Ala Gly Val Leu Ser Gln Ala Asp
 20 25 30
 Tyr Leu Asn Leu Val Gln Cys Glu Thr Leu Glu Asp Leu Lys Leu His
 35 40 45
 Leu Gln Ser Thr Asp Tyr Gly Asn Phe Leu Ala Asn Glu Ala Ser Pro
 50 55 60
 Leu Thr Val Ser Val Ile Asp Asp Arg Leu Lys Glu Lys Met Val Val
 65 70 75 80
 Glu Phe Arg His Met Arg Asn His Ala Tyr Glu Pro Leu Ala Ser Phe
 85 90 95
 Leu Asp Phe Ile Thr Tyr Ser Tyr Met Ile Asp Asn Val Ile Leu Leu
 100 105 110
 Ile Thr Gly Thr Leu His Gln Arg Ser Ile Ala Glu Leu Val Pro Lys
 115 120 125
 Cys His Pro Leu Gly Ser Phe Glu Gln Met Glu Ala Val Asn Ile Ala
 130 135 140
 Gln Thr Pro Ala Glu Leu Tyr Asn Ala Ile Leu Val Asp Thr Pro Leu
 145 150 155 160
 Ala Ala Phe Phe Gln Asp Cys Ile Ser Glu Gln Asp Leu Asp Glu Met
 165 170 175
 Asn Ile Glu Ile Ile Arg Asn Thr Leu Tyr Lys Ala Tyr Leu Glu Ser
 180 185 190
 Phe Tyr Lys Phe Cys Thr Leu Leu Gly Gly Thr Thr Ala Asp Ala Met
 195 200 205
 Cys Pro Ile Leu Glu Phe Glu Ala Asp Arg Arg Ala Phe Ile Ile Thr
 210 215 220
 Ile Asn Ser Phe Gly Thr Glu Leu Ser Lys Glu Asp Arg Ala Lys Leu
 225 230 235 240
 Phe Pro His Cys Gly Arg Leu Tyr Pro Glu Gly Leu Ala Gln Leu Ala
 245 250 255
 Arg Ala Asp Asp Tyr Glu Gln Val Lys Asn Val Ala Asp Tyr Tyr Pro
 260 265 270
 Glu Tyr Lys Leu Leu Phe Glu Gly Ala Gly Ser Asn Pro Gly Asp Lys
 275 280 285
 Thr Leu Glu Asp Arg Phe Phe Glu His Glu Val Lys Leu Asn Lys Leu
 290 295 300
 Ala Phe Leu Asn Gln Phe His Phe Gly Val Phe Tyr Ala Phe Val Lys
 305 310 315 320
 Leu Lys Glu Gln Glu Cys Arg Asn Ile Val Trp Ile Ala Glu Cys Ile
 325 330 335
 Ala Gln Arg His Arg Ala Lys Ile Asp Asn Tyr Ile Pro Ile Phe
 340 345 350

<210> 34
 <211> 127
 <212> PRT
 <213> Homo sapiens

<400> 34

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Met Ser Phe Ser Gly Lys Tyr Gln Leu Gln Ser Gln Glu Asn Phe Glu
 1          5          10          15
Ala Phe Met Lys Ala Ile Gly Leu Pro Glu Glu Leu Ile Gln Lys Gly
          20          25          30
Lys Asp Ile Lys Gly Val Ser Glu Ile Val Gln Asn Gly Lys His Phe
          35          40          45
Lys Phe Thr Ile Thr Ala Gly Ser Lys Val Ile Gln Asn Glu Phe Thr
          50          55          60
Val Gly Glu Glu Cys Glu Leu Glu Thr Met Thr Gly Glu Lys Val Lys
          65          70          75          80
Thr Val Val Gln Leu Glu Gly Asp Asn Lys Leu Val Thr Thr Phe Lys
          85          90          95
Asn Ile Lys Ser Val Thr Glu Leu Asn Gly Asp Ile Ile Thr Asn Thr
          100          105          110
Met Thr Leu Gly Asp Ile Val Phe Lys Arg Ile Ser Lys Arg Ile
          115          120          125

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<210> 35
 <211> 219
 <212> PRT
 <213> Homo sapiens

<400> 35

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Leu Ala Ala Pro Asp Leu Ser Lys Pro Arg Gly Tyr His Trp Asp Thr
 1          5          10          15
Ser Asp Trp Met Pro Ser Val Pro Leu Pro Asp Ile Gln Glu Phe Pro
          20          25          30
Asn Tyr Glu Val Ile Asp Glu Gln Thr Pro Leu Tyr Ser Ala Asp Pro
          35          40          45
Asn Ala Ile Asp Thr Asp Tyr Tyr Pro Gly Gly Tyr Asp Ile Glu Ser
          50          55          60
Asp Phe Pro Pro Pro Pro Glu Asp Phe Pro Ala Ala Asp Glu Leu Pro
          65          70          75          80
Pro Leu Pro Pro Glu Phe Ser Asn Gln Phe Glu Ser Ile His Pro Pro
          85          90          95
Arg Asp Met Pro Ala Ala Gly Ser Leu Gly Ser Ser Ser Arg Asn Arg
          100          105          110
Gln Arg Phe Asn Leu Asn Gln Tyr Leu Pro Asn Phe Tyr Pro Leu Asp
          115          120          125
Met Ser Glu Pro Gln Thr Lys Gly Thr Gly Glu Asn Ser Thr Cys Arg
          130          135          140
Glu Pro His Ala Pro Tyr Pro Pro Gly Tyr Gln Arg His Phe Glu Ala

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<210> 36
<211> 256
<212> PRT
<213> Homo sapiens
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<400>	36															
His	Glu	Glu	Asn	Ser	Arg	Ile	Val	Leu	Gln	Ile	Asp	Asn	Ala	Arg	Leu	
1				5					10					15		
Ala	Ala	Asp	Asp	Phe	Arg	Thr	Lys	Phe	Glu	Thr	Glu	Gln	Ala	Leu	Arg	
			20					25					30			
Met	Ser	Val	Glu	Ala	Asp	Ile	Asn	Gly	Leu	Arg	Arg	Val	Leu	Asp	Glu	
		35					40					45				
Leu	Thr	Leu	Ala	Arg	Thr	Asp	Leu	Glu	Met	Gln	Ile	Glu	Gly	Leu	Lys	
	50					55					60					
Glu	Glu	Leu	Ala	Tyr	Leu	Lys	Lys	Asn	His	Glu	Glu	Glu	Ile	Ser	Thr	
	65				70					75					80	
Leu	Arg	Gly	Gln	Val	Gly	Gly	Gln	Val	Ser	Val	Glu	Val	Asp	Ser	Ala	
				85					90					95		
Pro	Gly	Thr	Asp	Leu	Ala	Lys	Ile	Leu	Ser	Asp	Met	Arg	Ser	Gln	Tyr	
			100					105					110			
Glu	Val	Met	Ala	Glu	Gln	Asn	Arg	Lys	Asp	Ala	Glu	Ala	Trp	Phe	Thr	
		115					120					125				
Ser	Arg	Thr	Glu	Glu	Leu	Asn	Arg	Glu	Val	Ala	Gly	His	Thr	Glu	Gln	
	130					135					140					
Leu	Gln	Met	Ser	Arg	Ser	Glu	Val	Thr	Asp	Leu	Arg	Arg	Thr	Leu	Gln	
145					150					155					160	
Gly	Leu	Glu	Ile	Glu	Leu	Gln	Ser	Gln	Leu	Ser	Met	Lys	Ala	Ala	Leu	
				165					170					175		
Glu	Asp	Thr	Leu	Ala	Glu	Thr	Glu	Ala	Arg	Phe	Gly	Ala	Gln	Leu	Ala	
			180					185					190			
His	Ile	Gln	Ala	Leu	Ile	Ser	Gly	Ile	Glu	Ala	Gln	Leu	Gly	Asp	Val	
		195					200					205				
Arg	Ala	Asp	Ser	Glu	Arg	Gln	Asn	Gln	Glu	Tyr	Gln	Arg	Leu	Met	Asp	
	210					215					220					
Ile	Lys	Ser	Arg	Leu	Glu	Gln	Glu	Ile	Ala	Thr	Tyr	Arg	Ser	Leu	Leu	
225					230					235					240	

Glu Gly Gln Glu Asp His Tyr Asn Asn Leu Ser Ala Ser Lys Val Leu
 245 250 255

<210> 37
 <211> 143
 <212> PRT
 <213> Homo sapiens

<400> 37
 Met Ser Val Ser Glu Leu Lys Ala Gln Ile Thr Gln Lys Ile Gly Val
 1 5 10 15
 His Ala Phe Gln Gln Arg Leu Ala Val His Pro Ser Gly Val Ala Leu
 20 25 30
 Gln Asp Arg Val Pro Leu Ala Ser Gln Gly Leu Gly Pro Gly Ser Thr
 35 40 45
 Val Leu Leu Val Val Asp Lys Cys Asp Glu Pro Leu Ser Ile Leu Val
 50 55 60
 Arg Asn Asn Lys Gly Arg Ser Ser Thr Tyr Glu Val Arg Leu Thr Gln
 65 70 75 80
 Thr Val Ala His Leu Lys Gln Gln Val Ser Gly Leu Glu Gly Val Gln
 85 90 95
 Asp Asp Leu Phe Trp Leu Thr Phe Glu Gly Lys Pro Leu Glu Asp Gln
 100 105 110
 Leu Pro Leu Gly Glu Tyr Gly Leu Lys Pro Leu Ser Thr Val Phe Met
 115 120 125
 Asn Leu Arg Leu Arg Gly Gly Gly Thr Glu Pro Gly Gly Arg Ser
 130 135 140

<210> 38
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 38
 Met Thr Gly Ala Gly Leu Gly Arg Asp Ser Gly Arg Trp Arg Glu Val
 1 5 10 15
 Ser Phe Phe Gly Glu Thr Glu Arg Ala Arg Gly Gly Thr Val Gly Arg
 20 25 30
 Gly Arg Thr Arg Leu Arg Arg Gln Glu
 35 40

<210> 39
 <211> 118
 <212> PRT
 <213> Homo sapiens

<400> 39

Met Gln Thr Pro Pro Cys Phe Leu His Leu Ala Asp Tyr Leu Tyr Pro
 1 5 10 15
 Glu Gln Leu Lys Met Thr Val Val Lys Leu Ile Ser His Arg Glu Cys
 20 25 30
 Gln Gln Pro His Tyr Tyr Gly Ser Glu Val Thr Thr Lys Met Leu Cys
 35 40 45
 Ala Ala Asp Pro Gln Trp Lys Thr Asp Ser Cys Gln Gly Asp Ser Gly
 50 55 60
 Gly Pro Leu Val Cys Ser Leu Gln Gly Arg Met Thr Leu Thr Gly Ile
 65 70 75 80
 Val Ser Trp Gly Arg Gly Cys Ala Leu Lys Asp Lys Pro Gly Val Tyr
 85 90 95
 Thr Arg Val Ser His Phe Leu Pro Trp Ile Arg Ser His Thr Lys Glu
 100 105 110
 Glu Asn Gly Leu Ala Leu
 115

<210> 40

<211> 110

<212> PRT

<213> Homo sapiens

<400> 40

Pro Arg Val Arg Pro Glu Ala Gly Ser Ser Leu Cys Ser Pro Gly Pro
 1 5 10 15
 Ala Trp Leu Gly Glu Leu Glu Ala Ser Arg Arg Trp His Gly Ala Arg
 20 25 30
 Gln Asp Gly Cys Val His Arg Gly Ala Gly Gly His Gly Ser Gly Ser
 35 40 45
 Pro Gly Glu Thr Glu Glu Pro Pro Val Phe Pro Val His Met Gly His
 50 55 60
 Cys Cys Leu His Cys Phe Pro His Leu His Gly His Arg Ala Ala Pro
 65 70 75 80
 Ala Ala Ala Gly Arg Arg Pro Leu Leu Leu Leu Gln Leu Pro Arg Ala
 85 90 95
 Pro Gln Gly Lys Pro Gln Glu Gly Lys Thr Gln Gly Ser Gly
 100 105 110

<210> 41

<211> 63

<212> PRT

<213> Homo sapiens

<400> 41

Asp Thr Thr Thr Arg Asp Phe Thr Gln Leu Asn Glu Leu Gln Cys Arg
 1 5 10 15
 Phe Pro Arg Arg Leu Val Val Leu Gly Phe Pro Cys Asn Gln Phe Gly

	20		25		30										
His	Gln	Ser	Arg	Arg	Asp	Arg	Ser	Ser	Lys	Pro	Ser	Phe	Glu	Met	Ser
		35					40					45			
Leu	Gln	Pro	Gln	Lys	Tyr	Leu	Gln	Pro	His	Thr	Ile	Ser	Ser	Ala	
	50					55					60				

<210> 42
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 42
Tyr Pro Ala Ser Gln Ile Val His His Phe Met Glu Leu Cys Trp Asp
1 5 10 15
Lys Cys Val Glu Lys Pro Gly Asn Arg Leu Asp Ser Arg Thr Glu Asn
20 25 30
Cys Leu Ser Ser Cys Val Asp Arg Phe Ile Asp Thr Thr Leu Ala Ile
35 40 45
Thr Ser Arg Phe Ala Gln Ile Val Gln Lys Gly Gly Gln
50 55 60

<210> 43
 <211> 166
 <212> PRT
 <213> Homo sapiens

<400> 43
Met Ala Gln Thr Ser Ser Tyr Phe Met Leu Ile Ser Cys Leu Met Phe
1 5 10 15
Leu Ser Gln Ser Gln Gly Gln Glu Ala Gln Thr Glu Leu Pro Gln Ala
20 25 30
Arg Ile Ser Cys Pro Glu Gly Thr Asn Ala Tyr Arg Ser Tyr Cys Tyr
35 40 45
Tyr Phe Asn Glu Asp Arg Glu Thr Trp Val Asp Ala Asp Leu Tyr Cys
50 55 60
Gln Asn Met Asn Ser Gly Asn Leu Val Ser Val Leu Thr Gln Ala Glu
65 70 75 80
Gly Ala Phe Val Ala Ser Leu Ile Lys Glu Ser Gly Thr Asp Asp Phe
85 90 95
Asn Val Trp Ile Gly Leu His Asp Pro Lys Lys Asn Arg Arg Trp His
100 105 110
Trp Ser Ser Gly Ser Leu Val Ser Tyr Lys Ser Trp Gly Ile Gly Ala
115 120 125
Pro Ser Ser Val Asn Pro Gly Tyr Cys Val Ser Leu Thr Ser Ser Thr
130 135 140
Gly Phe Gln Lys Trp Lys Asp Val Pro Cys Glu Asp Lys Phe Ser Phe
145 150 155 160

Val Cys Lys Phe Lys Asn
165

<210> 44
<211> 93
<212> PRT
<213> Homo sapiens

<400> 44
Met Asp Pro Gly Pro Lys Gly His Cys His Cys Gly Gly His Gly His
1 5 10 15
Pro Pro Gly His Cys Gly Pro Pro Pro Gly His Gly Pro Gly Pro Cys
20 25 30
Gly Pro Pro Pro His His Gly Pro Gly Pro Cys Gly Pro Pro Pro His
35 40 45
His Gly Pro Gly Pro Cys Gly Pro Pro Pro Gly His Gly Pro Gly Pro
50 55 60
Cys Gly Pro Pro Pro His Gly Pro Gly Pro Cys Gly Pro Pro Pro
65 70 75 80
Gly His Gly Pro Gly His Pro Pro Pro Gly Pro His His
85 90

<210> 45
<211> 56
<212> PRT
<213> Homo sapiens

<400> 45
His Glu Glu Asn Gln Lys Asp Pro Leu Ala Val Asp Lys Ile Met Lys
1 5 10 15
Asp Leu Asp Gln Cys Arg Asp Gly Lys Val Gly Phe Gln Ser Phe Phe
20 25 30
Ser Leu Ile Ala Gly Leu Thr Ile Ala Cys Asn Asp Tyr Phe Val Val
35 40 45
His Met Lys Gln Lys Gly Lys Lys
50 55

<210> 46
<211> 239
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (215)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (216)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (227)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (236)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 46
 Met Ser Phe Phe Pro Glu Leu Tyr Phe Asn Val Asp Asn Gly Tyr Leu
 1 5 10 15
 Glu Gly Leu Val Arg Gly Leu Lys Ala Gly Val Leu Ser Gln Ala Asp
 20 25 30
 Tyr Leu Asn Leu Val Gln Cys Glu Thr Leu Glu Asp Leu Lys Leu His
 35 40 45
 Leu Gln Ser Thr Asp Tyr Gly Asn Phe Leu Ala Asn Glu Ala Ser Pro
 50 55 60
 Leu Thr Val Ser Val Ile Asp Asp Arg Leu Lys Glu Lys Met Val Val
 65 70 75 80
 Glu Phe Arg His Met Arg Asn His Ala Tyr Glu Pro Leu Ala Ser Phe
 85 90 95
 Leu Asp Phe Ile Thr Tyr Ser Tyr Met Ile Asp Asn Val Ile Leu Leu
 100 105 110
 Ile Thr Gly Thr Leu His Gln Arg Ser Ile Ala Glu Leu Val Pro Lys
 115 120 125
 Cys His Pro Leu Gly Ser Phe Glu Gln Met Glu Ala Val Asn Ile Ala
 130 135 140
 Gln Thr Pro Ala Glu Leu Tyr Asn Ala Ile Leu Val Asp Thr Pro Leu
 145 150 155 160
 Ala Ala Phe Phe Gln Asp Cys Ile Ser Glu Gln Asp Leu Asp Glu Met
 165 170 175
 Asn Ile Glu Ile Ile Arg Asn Thr Leu Tyr Lys Ala Tyr Leu Glu Ser
 180 185 190
 Phe Tyr Lys Phe Cys Thr Leu Leu Gly Gly Thr Thr Ala Asp Ala Met
 195 200 205
 Cys Pro Ile Leu Glu Phe Xaa Xaa Gln Thr Val Pro Ser Ser Phe His
 210 215 220
 Thr Val Xaa Gly Ser Thr Leu Arg Ala Trp Arg Xaa Gly Ser Gly
 225 230 235

<210> 47
 <211> 219
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (153)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 47

Leu Ala Ala Pro Asp Leu Ser Lys Pro Arg Gly Tyr His Trp Asp Thr
1 5 10 15

Ser Asp Trp Met Pro Ser Val Pro Leu Pro Asp Ile Gln Glu Phe Pro
20 25 30

Asn Tyr Glu Val Ile Asp Glu Gln Thr Pro Leu Tyr Ser Ala Asp Pro
35 40 45

Asn Ala Ile Asp Thr Asp Tyr Tyr Pro Gly Gly Tyr Asp Ile Glu Ser
50 55 60

Asp Phe Pro Pro Pro Pro Glu Asp Phe Pro Ala Ala Asp Glu Leu Pro
65 70 75 80

Pro Leu Pro Pro Glu Phe Ser Asn Gln Phe Glu Ser Ile His Pro Pro
85 90 95

Arg Asp Met Pro Ala Ala Gly Ser Leu Gly Ser Ser Ser Arg Asn Arg
100 105 110

Gln Arg Phe Asn Leu Asn Gln Tyr Leu Pro Asn Phe Tyr Pro Leu Asp
115 120 125

Met Ser Glu Pro Gln Thr Lys Gly Thr Gly Glu Asn Ser Thr Cys Arg
130 135 140

Glu Pro His Ala Pro Tyr Pro Pro Xaa Tyr Gln Arg His Phe Glu Ala
145 150 155 160

Pro Ala Val Glu Ser Met Pro Met Ser Val Tyr Ala Ser Thr Ala Ser
165 170 175

Cys Ser Asp Val Ser Ala Cys Cys Glu Val Glu Ser Glu Val Met Met
180 185 190

Ser Asp Tyr Glu Ser Gly Asp Asp Gly His Phe Glu Glu Val Thr Ile
195 200 205

Pro Pro Leu Asp Ser Gln Gln His Thr Glu Val
210 215

<210> 48

<211> 49

<212> PRT

<213> Homo sapiens

<400> 48

Met Gly His Cys Cys Leu His Cys Phe Pro His Leu His Gly His Arg
1 5 10 15

Ala Ala Pro Ala Ala Ala Gly Arg Arg Pro Leu Leu Leu Leu Gln Leu
20 25 30

Pro Arg Ala Pro Gln Gly Lys Pro Gln Glu Gly Lys Thr Gln Gly Ser
35 40 45

Gly

<210> 49
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 49
 Cys Val Ser Leu Thr Ser Ser Thr Gly Phe Gln Lys Trp Lys Asp Val
 1 5 10 15
 Pro Cys Glu Asp Lys Phe Ser Phe Val Cys
 20 25

<210> 50
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 50
 Ile Met Lys Asp Leu Asp Gln Cys Arg Asp Gly Lys Val Gly Phe Gln
 1 5 10 15
 Ser Phe Phe Ser Leu Ile
 20

<210> 51
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 51
 Gly Lys Tyr Gln Leu Gln Ser Gln Glu Asn Phe Glu Ala Phe Met Lys
 1 5 10 15
 Ala Ile

<210> 52
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 52
 Ile Ala Thr Tyr Arg Ser Leu Leu Glu
 1 5

<210> 53
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 53
 Asp Ser Cys Gln Gly Asp Ser Gly Gly Pro Leu Val
 1 5 10

<210> 54

<211> 54
 <212> PRT
 <213> Homo sapiens

<400> 54
 Ala Arg Ala Pro Pro Ala Leu Leu Lys Ile Arg Ser Lys Glu Gly Arg
 1 5 10 15
 Cys Ala Gln Pro Ser Arg Thr Ile Gln Thr Ile Cys Leu Pro Ser Met
 20 25 30
 Tyr Asn Asp Pro Gln Phe Gly Thr Ser Cys Glu Ile Thr Gly Phe Gly
 35 40 45
 Lys Glu Asn Ser Ser Lys
 50

<210> 55
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 55
 Gly Lys Pro Gln Glu Gly Lys Thr
 1 5

<210> 56
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 56
 Leu Gly Phe Pro Cys Asn Gln Phe
 1 5